Entire Net-Work

Entire Net-Work 7.4 Release Notes

Version 7.4.1

July 2012

Entire Net-Work

This document applies to Entire Net-Work Version 7.4.1.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Entire Net-Work 7.4 Release Notes

This document provides release notes for Entire Net-Work 7.4 release. It is organized as follows:

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Enhancements	Describes the enhancements made to Entire Net-Work in Version 7.4.
OpenVMS Considerations	Provides information specific to OpenVMS users who are new to Entire Net-Work 7.
Dropped Features	Describes features that have been dropped in this version of Entire Net-Work.
Entire Net-Work 7 Compatibility	Describes compatibility issues between Entire Net-Work 7 and other products.
End of Maintenance	Describes the maintenance plans for prior Entire Net-Work releases.
Migration Considerations	Lists things to consider when migrating from earlier releases of Entire Net-Work
Future Plans	Identifies features and support that will change in future releases.
Documentation	Describes the Entire Net-Work documentation.

2 Prerequisites

Prerequisites for Entire Net-Work 7 are described in *Platform Coverage and Prerequisites* in the *Entire Net-Work Installation Guide*.

3 Enhancements

This chapter describes the enhancements that have been made to this release.

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Last-minute information on problems that have been addressed by this release are described in the *ReadMe* file.

General Maintenance Applied

Maintenance updates have been applied to this release.

New Parameter to Control Adabas Context Checking Frequency

A new Kernel parameter is introduced in Entire Net-Work 7.4 SP1. This parameter is called CHECK_CXT_INTERVAL and it can be used to specify how old Adabas contexts that are created by Entire Net-Work clients can be, in seconds. If the value of this new parameter is not zero, an Entire Net-Work thread periodically (every minute) checks the Adabas contexts created by clients connected to Entire Net-Work. Any contexts older than the time set by this parameter are deleted.

For complete information, read *Setting Advanced Parameters*, in the *Entire Net-Work Administration Guide*.

Increased Trace Granularity

The ability to control the level of the traces you request for Entire Net-Work has been enhanced in this release. More specific tracing options are now available, making it possible for you to increase or decrease the size of the tracing log (and thus making problem analysis more specific and efficient). For complete information, read about Entire Net-Work Client traces, Entire Net-Work Server traces, and Kernel traces at one of the following links:

- *Managing Client Service Tracing* and *Managing Client Tracing* , in the *Entire Net-Work Client Installation and Administration Guide*
- *Setting the Trace Level for a Server*, in the *Entire Net-Work Server Installation and Administration Guide*
- *Managing Kernel Tracing*, in the *Entire Net-Work Server Installation and Administration Guide*.

Adding Dates and Times to Trace Data

This release allows you to add dates and time stamps to every trace statement written. A new **DATE_STAMP** parameter is added to the **Kernel Basic Parameters** panel that allows you to activate this. For more information, read *Setting Basic Parameters*, in the *Entire Net-Work Server Installation and Administration Guide*.

Performance Improvements

A variety of performance improvements have been made in this release. Internal changes have been made that improve how clients are handled and improve throughput.

In addition, Kernel scalability parameters have been provided that allow you to specify the maximum CPU usage of a Kernel as well as the maximum number of clients to and from which requests can be processed concurrently by the Kernel. These paramers are the MAX_CPU_THRESHOLD and MAX_CLIENTS parameters. For complete information, read *Specifying Kernel Scalability*, in the *Entire Net-Work Server Installation and Administration Guide*.

Kernel Client Monitoring and Statistics

With this release you can dynamically manage the clients of a Kernel and view statistical information about them. For more information, read *Dynamically Managing Kernel Clients and Adabas Contexts*, in the *Entire Net-Work Server Installation and Administration Guide*.

To activate this feature, set the `STATISTICS_DETAILS` parameter to "YES" in the Kernel Advanced Parameters screen. For more information, read *Setting Advanced Parameters*, in the *Entire Net-Work Server Installation and Administration Guide*.

Kernel Filtering

You can now filter the clients and Kernels that access a Kernel by host machine name, Kernel name, database ID, and Entire Net-Work Client name. Six new filter parameters are now available for Kernels: ACCEPTED_HOSTS, REJECTED_HOSTS, ACCEPTED_KERNELS, REJECTED_KERNELS, ACCEPTED_CLIENTS, and REJECTED_CLIENTS.

- Use the ACCEPTED_HOSTS and REJECTED_HOSTS filters to control the machines from and to which service requests can be processed by a Kernel.
- Use the ACCEPTED_CLIENTS and REJECTED_CLIENTS filters to control the Entire Net-Work Clients from which service requests can be processed by a Kernel.
- Use the ACCEPTED_KERNELS and REJECTED_KERNELS filters to control the Kernels from and to which service requests can be processed by a Kernel.

For more information, read *Maintaining Kernel Filters*, in the *Entire Net-Work Server Installation and Administration Guide*.

Restricting Client Access to Remote or Local Databases

This release introduces two new parameters for client configurations: NOLOCAL and NOREMOTE. NOLOCAL controls the ability of the client to access local databases; NOREMOTE controls the ability of the client to access remote databases. For more information, read *Maintaining Client Configuration Parameters*, in the *Entire Net-Work Client Installation and Administration Guide*.

Checking Kernel Databases

You can now check the databases managed by a Kernel. Checking the databases causesEntire Net-Work to search for any Adabas databases that were started recently and to refresh its internal table and corresponding SMH information. This is useful, for example, when you want to obtain the latest status of the databases that a specific Kernel manages.

For more information, read *Checking Kernel Databases*, in the *Entire Net-Work Server Installation and Administration Guide*.

Automatic Authentication with SAF

In past releases, when SAF was used in conjunction with Entire Net-Work Client, a pop-up window appeared prompting for your user ID and password. In this release, your user ID and password are passed automatically to SAF and no pop-up window appears.

Statistics Integrated into webMethods Optimize for Infrastructure

In this release, Entire Net-Work key performance indicator (KPI) statistics are now provided to webMethods Optimize for Infrastructure. Using the Optimize component of webMethods Optimize for Infrastructure, you can monitor the status of these statistics as well as the overall status of your system. This support is available in version 8.2 (and later versions) of webMethods Optimize for Infrastructure.

Support for Adabas 28-byte Session ID

This release supports the Adabas 6.2 expansion of the Adabas session ID from 20 to 28 bytes. The Adabas session ID now includes an eight-byte timestamp that ensures that the session ID is unique.

Adabas Contexts Reestablished after Disconnection

In this release, you no longer need to restart your clients when an Adabas database is shutdown and restarted. Instead, the client contexts to the Adabas database are now reestablished once the database is restarted.

Support for 64-bit Adabas

Support for 64-bit Adabas has been added to this release. This release supports both 32- and 64-bit Adabas.

Windows Server 2008 Support

Windows Server 2008 64-bit support has been added in this release.

Simplified Installation

The installation for Entire Net-Work open systems and its components have been simplified in this release. Separate installations are provided for the Software AG Directory Server, Entire Net-Work Administration Open Systems, Entire Net-Work Server, and Entire Net-Work Client. For more information, read the installation documentation.

License Requirement Changes

With this release, no license is required for Entire Net-Work Client 1.4 installations, although a license is still required for Entire Net-Work Server 7.4.

User-Defined License Directory

With this release, you can now specify the location of a license file directory. The Kernel will check this location for the license file. If no user-defined license directory is specified, the Kernel will check the default license file location for the license file. If the Kernel fails to find the license file in either the user-defined location or the default location, it will not start.

For information on using a user-defined license directory, read *Using a User-Defined License Directory*, in the *Entire Net-Work Server Installation and Administration Guide*

Coexistence of Entire Net-Work Releases on the Same Machine

The migration between Entire Net-Work 7.3 and 7.4 has been simplified primarily because the two releases can now coexist on the same machine. You can set up and test Entire Net-Work 7.4 on a machine while running 7.3 on the same machine in production.

Likewise, the migration between Entire Net-Work Client 1.3 and 1.4 has been simplified primarily because the two releases can now coexist on the same machine.

New Entire Net-Work Command Line Utility

A new batch utility is provided, wcpadmin, that allows you to perform some of the Entire Net-Work service functions in batch mode. For complete information, read *Entire Net-Work Service Function Utility (wcpadmin)*, in the *Entire Net-Work Administration Guide*.

New Entire Net-Work Batch Directory Server Utility Functions

Two new Entire Net-Work utility functions with focus on the Software AG Directory Server availability and settings are now provided for you to use in batch mode:

- Use the checkadi utility function to check for a Directory Server.
- Use the setadi utility function to set Directory Server access parameters for Entire Net-Work and Entire Net-Work Client.

For complete information, read *Entire Net-Work Directory Server Utility Functions (checkadi and setadi)*, in the *Entire Net-Work Administration Guide*.

4 OpenVMS Considerations

If you are planning to install Entire Net-Work (and its component products Entire Net-Work Server and Entire Net-Work Client) on OpenVMS , you must understand the new architecture of Entire Net-Work 7 and how the changes made for this release affect your OpenVMS installation. The architecture of Entire Net-Work has changed drastically from the architecture used by Entire Net-Work version 3 (available on OpenVMS systems only). In addition, the architecture of Entire Net-Work 7 (originally available only for Windows and UNIX systems) changed again somewhat between Entire Net-Work 7.2 and 7.3. Entire Net-Work 7.3.2 now supports OpenVMS platforms, making these architectural changes now available in OpenVMS environments. We therefore recommend that you read the following documentation prior to installing Entire Net-Work in OpenVMS environments, in this order:

- *Release Notes* for Entire Net-Work 7.3
- *Architectural Changes for Entire Net-Work 7.2* (found in *Entire Net-Work 7 Planning Guide*)
- *Frequently Asked Questions for Entire Net-Work 7.2* (found in *Entire Net-Work 7 Planning Guide*)
- ***Enhancements***, elsewhere in this guide
- *Planning for Entire Net-Work 7.4 on OpenVMS Platforms*, found in *Entire Net-Work 7 Planning Guide*.

Notes:

1. For OpenVMS installations, the integration instructions are somewhat different than for other operating environments. This is because no OpenVMS support was provided in Entire Net-Work 7.2 and additional architectural changes were made for Entire Net-Work 7.3 (Entire Net-Work 7.3 no longer uses Kernel nodes, although Entire Net-Work 7.2 did).
2. The Configuration Utility is not provided in OpenVMS environments.
3. SMH is not available in OpenVMS environments. Therefore, you must use SMH in Windows or UNIX to perform Entire Net-Work for OpenVMS administration tasks. The installation

CD for SMH in Windows environments is included with your Entire Net-Work for OpenVMS kit and no license check is performed if only an SMH installation is performed for the CD.

5 Dropped Features

The following features have been dropped in this release:

- Support for the Windows Vista and Windows 2003 operating systems has been dropped in this release.
- Support for 32-bit Linux environments has also been dropped.

6 Entire Net-Work 7 Compatibility

This chapter describes the Entire Net-Work 7 compatibility issues.

Adabas and Classic Entire Net-Work Version Compatibility

Entire Net-Work 7.4 provides the ability to communicate with and pass Adabas traffic with other released versions of Entire Net-Work:

Platform	Entire Net-Work Version	Adabas Version
Workstations	2.6.1	3
UNIX	2.1.1	3
OpenVMS	3.2.5 and 3.2.6	4
Mainframe	5.7, 5.8, 5.9, and 6.1	6, 7, 8

Adabas Database Compatibility

Entire Net-Work 7 supports both local and remote Adabas databases. Software AG recommends the use of Adabas 6 on open systems with Entire Net-Work 7 on open systems.

EntireX Communicator Compatibility

The NET transport method of EntireX Communicator on UNIX and Windows does not support Entire Net-Work 7.3 or 7.4. For additional information, contact your Software AG technical support representative.

Terminal Server Environment

Installation and operation of the Entire Net-Work 7 Kernel should be conducted only by the Administrator or a user with administrative access. However, applications installed under Terminal Server are always installed in the All Users Start Menu folder and are therefore available to all users.

The operational security of Entire Net-Work 7 in the Terminal Server environment will be improved in future product releases to prevent unauthorized access to the Entire Net-Work 7 Kernel. Until this is addressed, network administrators should consider restricting execution of the Entire Net-Work 7 kernel functions (*netrdi.exe* and *netstop.exe*) in terminal server environments to administrators through the user of NTFS permissions.

7 End of Maintenance

For information on how long a product is supported by Software AG, access Software AG's Empower web site at *https://empower.softwareag.com*.

Log into Empower. Once you have logged in, you can expand **Products** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability application. This application allows you to review support information for specific products and releases.

8 Migration Considerations

If the Software AG Directory Server is installed and used by a prior version this product, be sure to use the existing Software AG Directory Server port number setting for this installation. You can change the port number after this product is installed. For complete information on changing the Directory Server port number used, read *Changing the Software AG Directory Server Port Number*, in the *Entire Net-Work Installation Guide*.

Note: You cannot use the System Management Hub (SMH) agents installed with an earlier version of Entire Net-Work Client or Entire Net-Work Server to manage this version of Entire Net-Work Client or Entire Net-Work Server. You must use the SMH agents distributed with this version instead. These agents are installed as part of the Entire Net-Work Administration Open Systems installation.

To migrate from an older version of Entire Net-Work Client to this one, you need only install this newer version. If you want to use your older Entire Net-Work Client configurations in this new version, you must migrate them. For complete information on migrating older Entire Net-Work Client configurations, read *Migrating Entire Net-Work Client 1.3 Configurations*, in the *Entire Net-Work Client Installation and Administration Guide*.

To migrate from an older version of Entire Net-Work Server to this one, you need only install this newer version. If you want to use your older Entire Net-Work Server Kernel configurations in this new version, you must migrate them. For complete information on migrating older Kernel configurations, read *Migrating 7.3 Kernel Configurations*, in the *Entire Net-Work Server Installation and Administration Guide*.

Caution: Once a Kernel configuration has been migrated to 7.4, it cannot be migrated back to 7.3. If you really need to do so, contact your Software AG technical support representative for assistance. Once a client configuration has been migrated to 1.4, it cannot be migrated back to 1.3; there is no procedure to do so.

When you install this version of Entire Net-Work Client or Entire Net-Work Server on a Windows system running an older version of the product, the older installation is automatically uninstalled.

However, on UNIX systems, the older installation must be removed manually. Once your testing and migration to this new version is complete (and before you attempt to use it in your licensed production environments), you must uninstall any Entire Net-Work version 2 products you have installed on the same machine.

9 Future Plans

Support and documentation for OpenVMS systems is planned.

In a future version, support for the following platforms will be dropped:

- HP-UX on PA-RISC processors
- Windows XP

10 Documentation

The documentation for this product is new with this release. When additional updated versions of the documentation are created, you can review them by linking to the Software AG documentation web site: ***http://documentation.softwareag.com/***. If you have an Empower account, updated and past versions of the documentation can also be reviewed and downloaded by linking to the Software AG Empower web site: ***https://empower.softwareag.com***. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts).

This documentation includes:

- online HTML topics describing all aspects of the product;
- Adobe Acrobat Reader Portable Document Format (PDF) files created from the HTML topics;
- Adobe Acrobat Reader Portable Document Format (PDF) files of appropriate books (guides) created from the HTML topics.

Documentation for the Software AG Directory Server can be found in *Software AG Directory Server Documentation* in the *Software AG Directory Server Administration Guide*.

The System Management Hub documentation can be found in the System Management Hub installation. For example, if SMH is installed in Windows at *C:\Program Files\Software AG\ System Management Hub*, then the SMH documentation can be found in: *C:\Program Files\Software AG\System Management Hub\help\doc\overview.htm*. Likewise, in UNIX environments, if the SMH installation is located at *$SAG/common/arg*, then the SMH documentation can be found in *$SAG/common/arg/help/doc/overview.htm*.

No hard-copy documentation is provided, but you can print the PDF and HTML files on your local printer.

Allowing Active Content in Windows Environments

With Service Pack 2 (SP2) for Windows XP and Service Pack 1 (SP1) for Server 2003 and later Windows releases, Microsoft introduced a range of powerful new security features that restrict active content that runs locally on your computer. Active content includes ActiveX controls, Java applets, and JavaScript. Software AG's documentation web pages contain some JavaScript, and the SEARCH, INDEX and CONTENTS capabilities are implemented as Java applets. As a result, when viewing documentation web pages that reside on your PC using Internet Explorer and Mozilla Firefox under Windows XP SP2, note that active content is blocked. You must explicitly and repeatedly allow active content if you want to make use of the documentation's full navigation features. Note that this behavior is only observed when reading web pages installed locally on your PC, including those on CD in the PCs CD-ROM drive.

The active content for which Software AG is responsible, that is, the JavaScript code in our HTML documentation pages, will not harm your computers. The risk in using the navigation applets is negligible: Software AG has received no reports from users concerning any harm caused to a

computer by the applets. We therefore suggest that when reading Software AG documentation in a local context, you should allow active content via the Security settings in the browser (with Internet Explorer, usually found under Tools > Internet Options > Advanced).

Full details of alternatives can be found on the home page of the suppliers of the navigation applets: ***http://www.phdcc.com/xpsp2.htm***.

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